3.6b Chain Rule

Repeated use of the chain rule. Find the derivatives of:

$g(t) = \tan(5 - \sin 2t)$

$f(x) = \sqrt[3]{1 + \sin^2(3x)}$

$h(x) = (\ \sin(x^3 + 2x) + \cos(5x)\ )^4$

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Chain Rule for parametric equations

$$\frac{dy}{dx} = \frac{dy/dt}{dx/dt}$$

Find the tangent to the hyperbola branch defined parametrically by

$x = \sec(t)\ y = \tan(t) \quad -\frac{\pi}{2} < t < \frac{\pi}{2}$

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Find the derivatives:

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Radians vs Degrees

$$x^\circ = \frac{\pi}{180} x \ radians$$

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